JVC

SERVICE MANUAL

SPEAKER SYSTEM

MODEL No. SX-911WD

SX-911WDL SX-911WDR

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Specifications

Type	: 3 way 3 speaker
Enclosure type	: Acoustic suspension type
Speakers	
Woofer	: 305 mm (12") cloth carbon cone x 1
Midrange	: 115 mm (4-1/2") cloth carbon cone x 1
Tweeter	: 25 mm (1") amorphous-diamond coated dome
Power handling capacity	: 150 watts 300 watts (music)
Impedance	: 6 ohms
Sensitivity	: 91 dB, 1 W/1 m
Frequency range	: 40 Hz – 50 kHz
Crossover frequencies	: 500 Hz, 4000 Hz
Dimensions	: 380 (W) x 665 (H) x 351 (D) mm (15" x 26-3/16" x 13-7/8")
Weight	: 28.5 kg (63 lbs.) each
Accessory	: Speaker cord 3m

Design and specifications subject to change without notice.

No. 20052
Apr. 1988

Instructions

Installation of speaker systems

1. Connect the speaker system to an amplifier after turning off the power supply of the amplifier.
2. This speaker has the different type, namely the left from the right. Install the SX-911WDL to the left, the SX-911WDR to the right. Connect the LEFT speaker terminals of the amplifier to the LEFT terminals of the speaker and RIGHT to RIGHT using the speaker cords as shown in figure making sure the polarity is correct; (+) to (+) and (—) to (—).
3. The nominal impedance is 6 ohms; an amplifier having a speaker load impedance of 6 ohms is recommended to get the optimum performance.
4. Do not remove the speaker units, dividing network or other parts.

Notes:

1. **Since the power handling capacity of this speaker system is 150 watts (300 watts peak music power) be careful not to input signals more than this.**
2. **Be careful in setting the volume level of the amplifier. Distortion is generally very low in value when the volume knob is set at the 1 o'clock position.**
3. **An amplifier's output power is indicated for a continuous signal (rms value) whereas a speaker's power handling capacity is indicated by the music level or the peak music level; though they are both indicated in watts, the ways of measurement are different and the meanings are different even if the numbers are same.**
4. **Beware of certain types of signals.**
   When certain types of signal are applied to the speaker, they may cause damage by overheating or mechanical damage; be careful with the following types of signal:
   - **Excessive interstation noise in FM tuning.**
   - **High level, high frequency signals from a tape deck in the fast forward mode.**
   - **Switching noise which occurs when the amplifier or receiver is switched on and off.**
   - **Noise produced when connecting or disconnecting system components.**
   - **Noise produced when changing the cartridge.**
   - **Continuous high frequency sound from an oscillator or electronic musical instrument.**
   - **Howling caused by acoustic feedback when using a microphone.**
5. **When reproducing digital signals from a CD digital disc, etc., be careful that the maximum peak value does not exceed the power handling capacity of the speaker because of the extremely fast rise time of the signals from zero (there is no initial noise) and the wider dynamic range of 90 dB.**

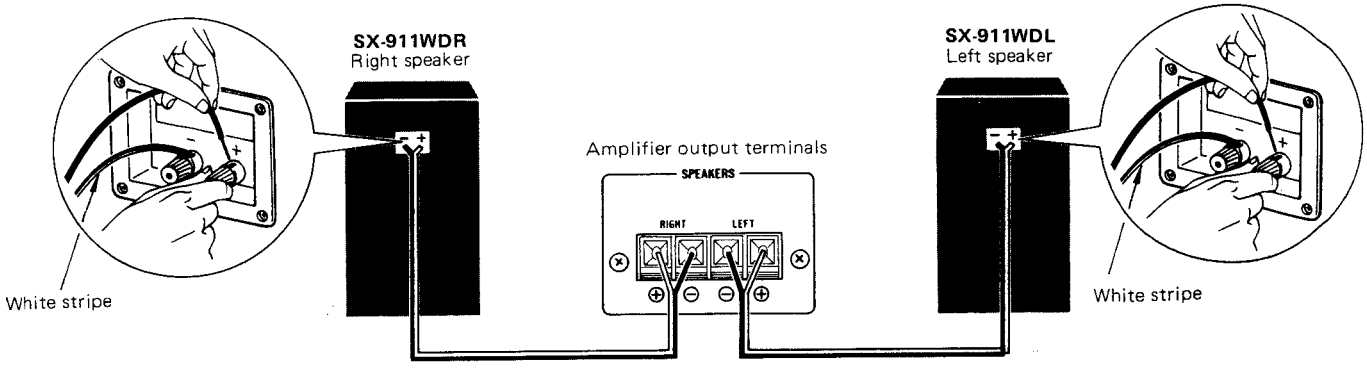
Front Grille

The front grille of the speaker is affixed by the magnet.

Notes:

- **When the speaker is moved, remove the front grille beforehand. Otherwise, front grille may fall and be damaged.**
- **Do not place the front grille near a TV set. Since the magnet is equipped with the front grille, it may cause color disturbance on a TV.**

Amplifier connection



Troubleshooting

Removing the Speaker Grille

Pull the speaker grille toward you to remove it.

Removing the Speaker Units

In this system,since the speaker units are mounted on the front panel,they can be removed easily after the speaker grille has been removed.

Note:
When removing a speaker units,use felt or soft cloth so as not to leave indentations or scratches on the cabinet,speaker units,speaker terminals, etc.

Connections to Speaker Terminals

When used to replace old speakers (see Fig.1):

1. When replacing a pair of old speakers with the SX911WD, cut the speaker cables (from the amplifier) at the end of the speaker terminals.
2. Peel off about 8cm of the shielding from the tip of the speaker cable,and insert it into the hole in the speaker terminal.
3. Using a crimping jig with a 2-mm hole,crimp the cable sufficiently before connecting it. If a crimping jig is not available,wrap the cable around the speaker terminal and solder it.

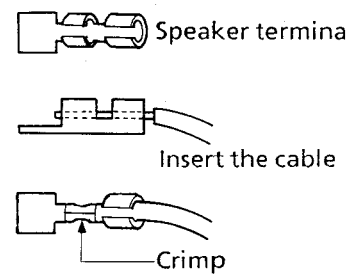


Fig.1

When connecting together with as current speaker system:

Two pairs of terminals (for front and rear) are available for crimped connection. If both pairs of terminals are already in use,wrap the cable round the terminal ane solder it.

Note:
After connection,be sure to check the condition of connection.

Replacement of left woofer unit

Cut the Mylar capacitor connected to the speaker terminals as shown in Fig.2,and keep it for future use.

Note:
A Mylar capacitor is connected to the left woofer only.

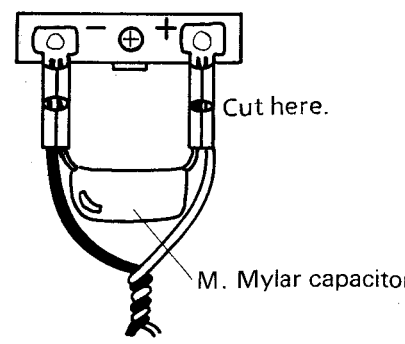
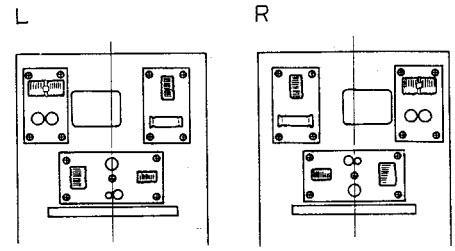


Fig.2

Removing and Installing the Crossover Network

As shown in Fig.3,the crossover networks are mounted on the inside of the rear board of the cabinet. After removing all speaker units,remove the screws retaining the crossover net works and speaker terminals,then pull the networks out through the speaker holes.
The networks in the left and right speakers are mounted at different positions;take care when re-installing them, referring to Fig.3.

Mounting position



How to Trim the Lead Wires of Networks

The lead wires of each part are pressure-connected (crimped) using ring sleeves. When replacing parts or trimming lead wires,perform in the following order.(See Fig.4.)

1. Remove adhesive.
2. Cut the lead wires of the part to be reeplaced.
3. Wrasp the lead wire of the new part around the other lead wire,squeeze them together with pliers and solder.
4. Apply adhesive to the whole of the ring sleeve to secure it to the wire.

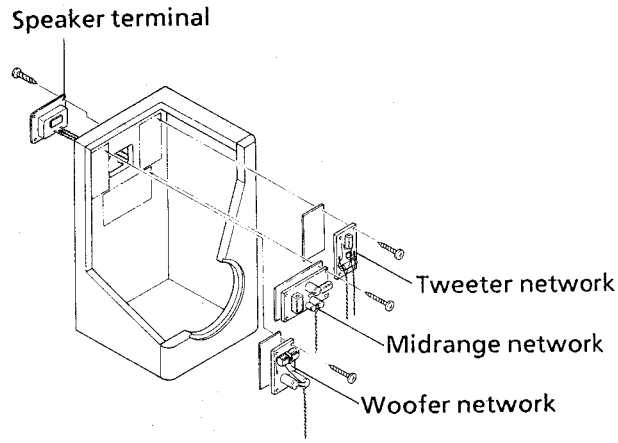


Fig.3

Absorption material of midrange unit and speaker cover

If sound absorbing materials are removed when repairing the networks or replacing a speaker unit,be sure to reinstall as shown in Fig.5.

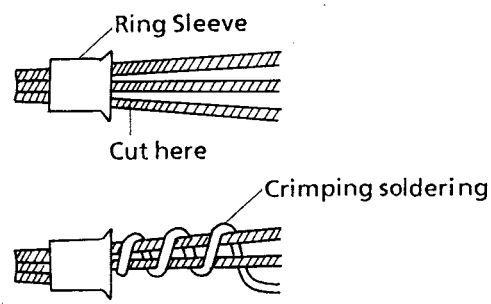


Fig.4

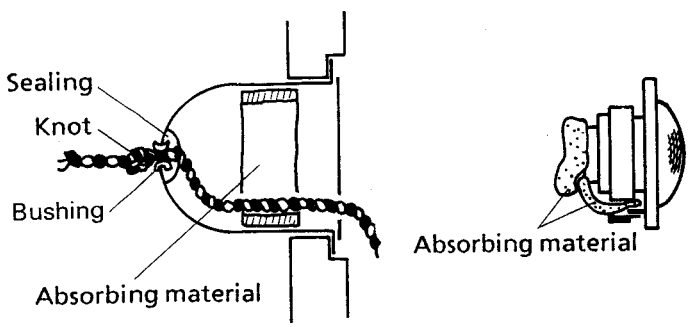
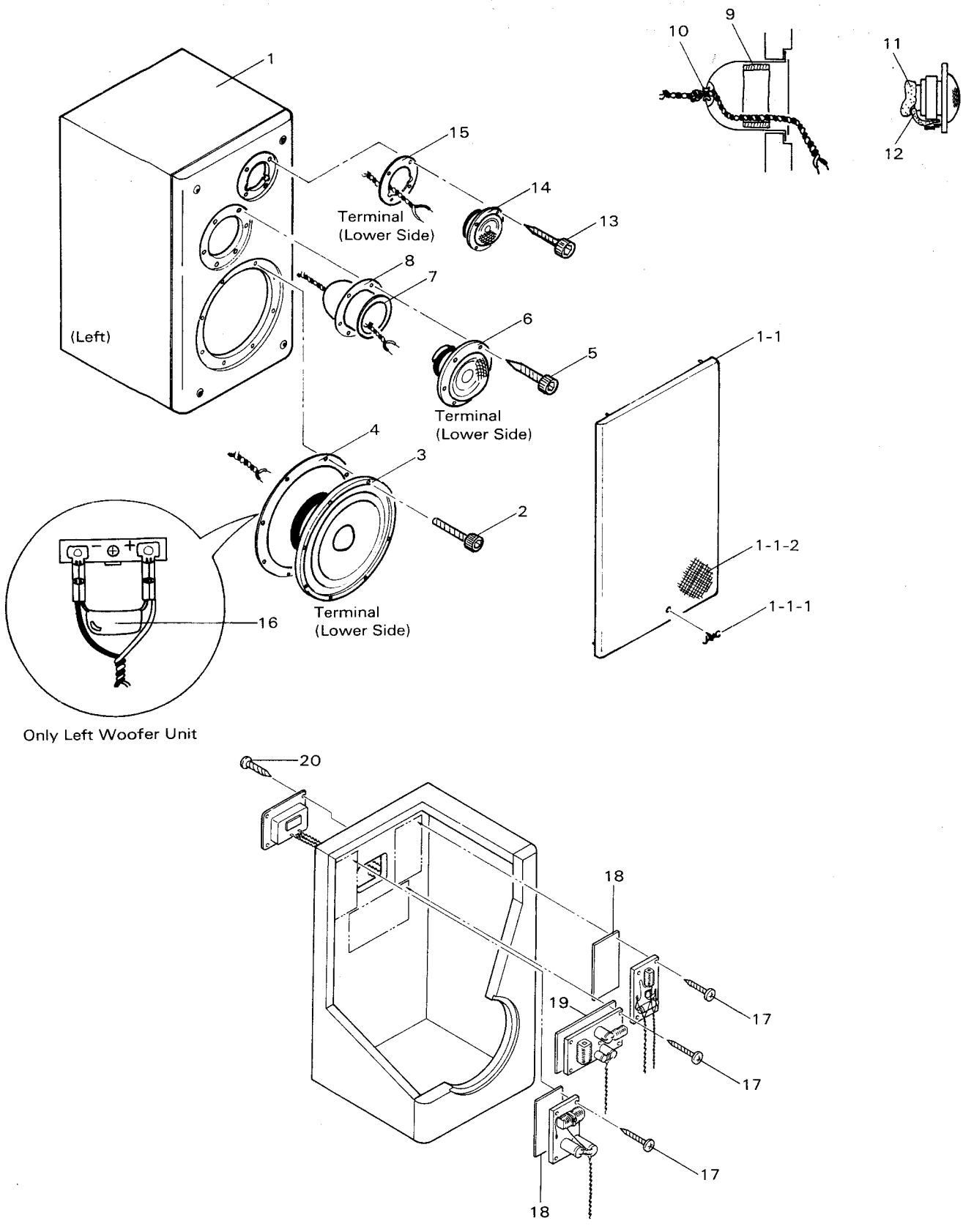


Fig.5

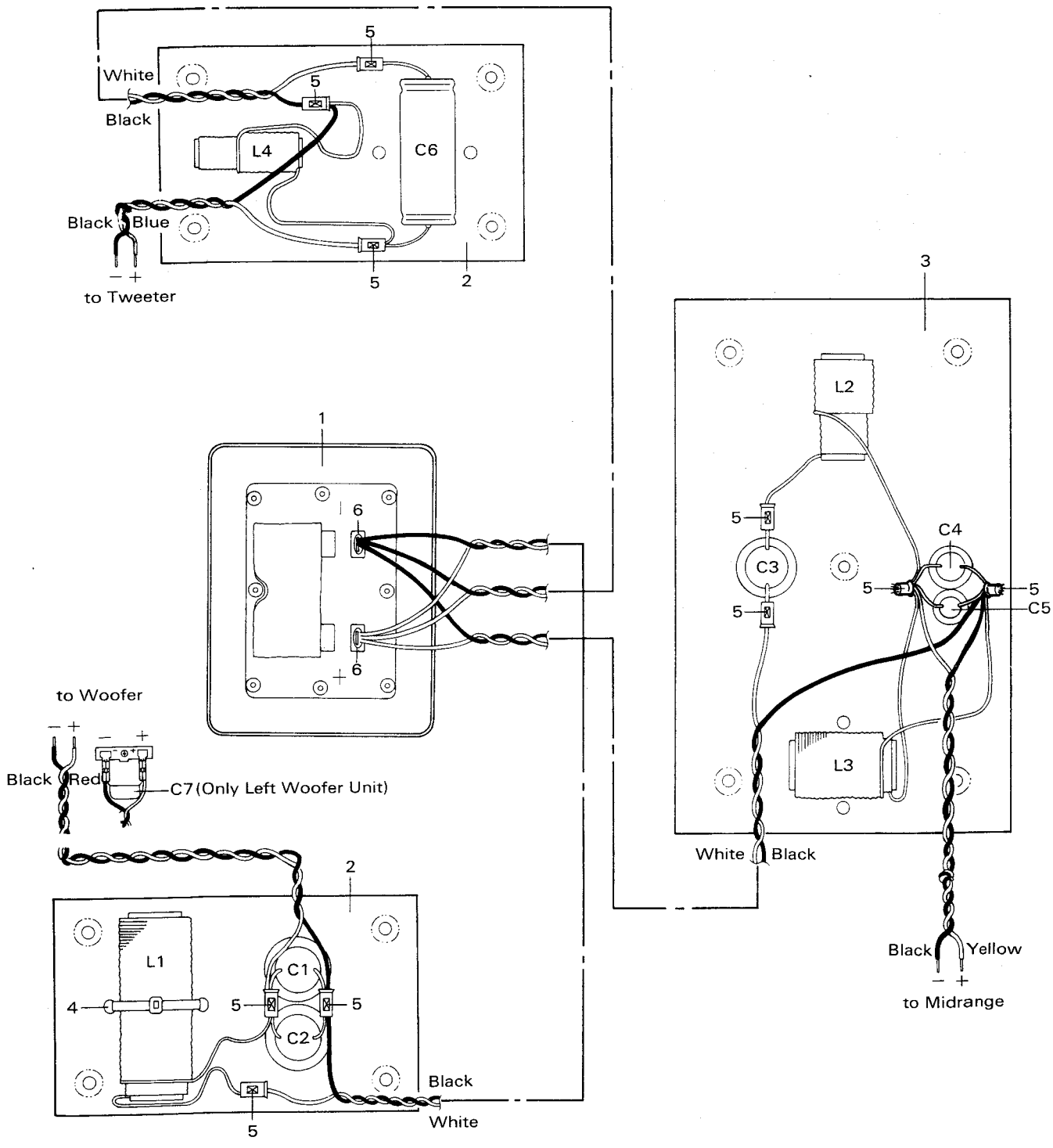
Exploded View and Parts List



Parts List

⚠	Item	Part Number	Part Name	Q'ty	Description
	1	EZC-SX-911WDL	Cabinet Ass'y	1	(L)
		EZC-SX-911WDR	Cabinet Ass'y	1	(R)
	1-1	E26063-001	Front Grille Ass'y	1	
	1-1-1	P5829-002	Mark	1	
	1-1-2	SN0.482	Saran	1	
	2	BYS8040R	Screw	8	
	3	HSA3023-01A	Speaker	1	Woofer SP11
	4	E305035-002A	Spacer	1	
	5	E69332-015	Special Screw	6	
	6	HSA1236-01BZ	Speaker	1	Midrange SP21
	7	E302737-002SA	Speaker Cover	1	
	8	E305035-002B	Spacer	1	
	9	E45181-046	Acoustic Absorner	1	
	10	E44668-001	Bushing	1	
	11	E303562-001	Acoustic Absorber	1	
	12	E45181-023	Acoustic Absorber	1	
	13	E69332-016	Special Screw	4	
	14	HSD2427-01AZ	Speaker	1	Tweeter SP31
	15	E305035-002C	Spacer	1	
	16	QFZ0074-105	M.Mylar Capacitor	1	Only (L)Side
	17	SDSA4025M	Screw	13	
	18	E74296-001	Spacer	2	85 x 140 x t3
	19	E74296-002	Spacer	1	130 x 205 x t3
	20	SDSA3016M	Screw	4	

Network Ass'y and Parts List



Parts List

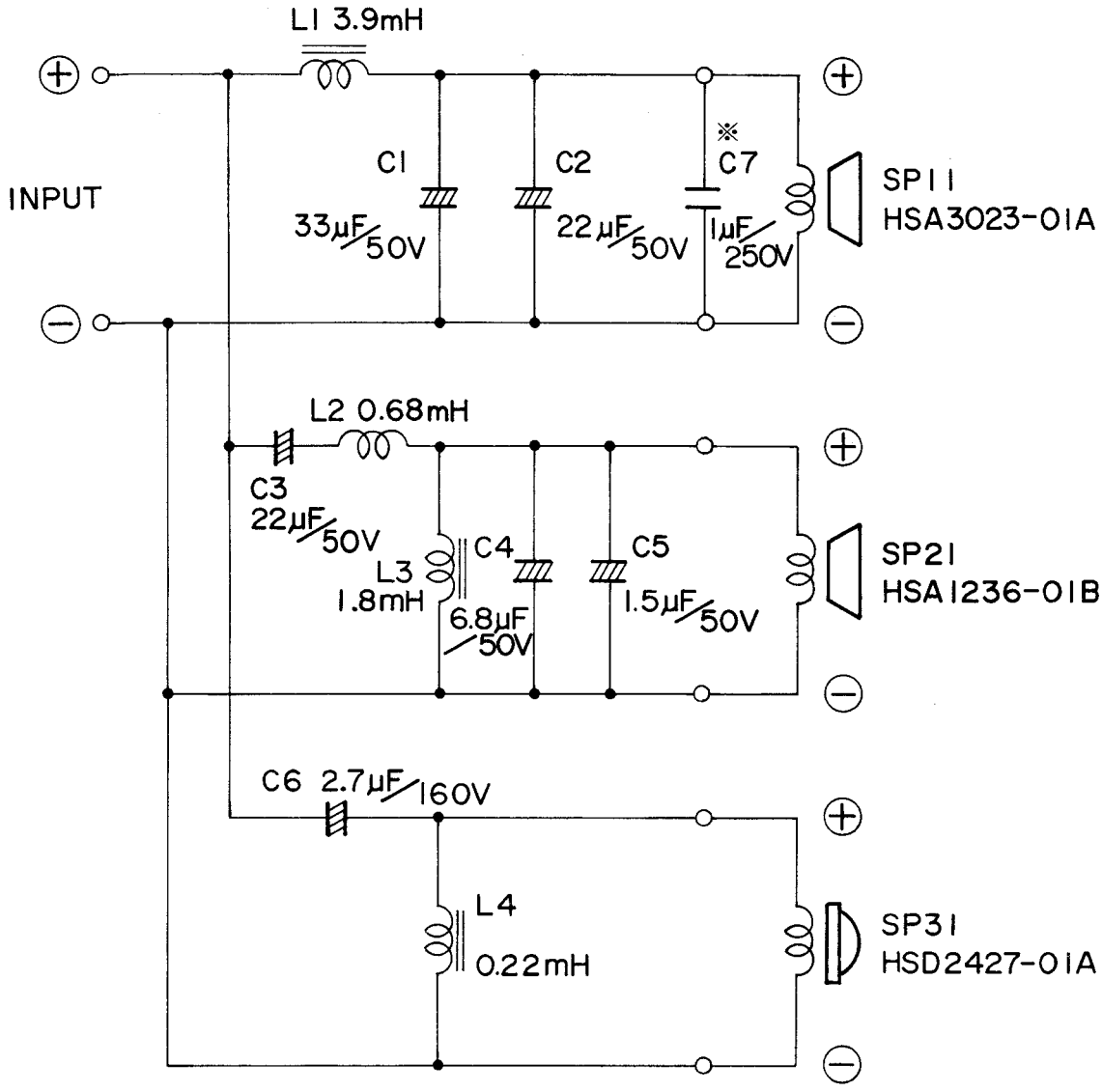
⚠	Item	Part Number	Part Name	Q'ty	Description
	C1	QEZ0055-336	N.P.Electrolytic Capacitor	1	33uF/50V
	C2	EEN5001-226	N.P.Electrolytic Capacitor	1	22uF/50V
	C3	EEN5001-226	N.P.Electrolytic Capacitor	1	22uF/50V
	C4	QEZ0055-685	N.P.Electrolytic Capacitor	1	6.8uF/50V
	C5	QEZ0055-155	N.P.Electrolytic Capacitor	1	1.5uF/50V
	C6	EFZ0095-275	M.Paper Capacitor	1	2.7uF/160V
	C7	QFZ0074-105	M.Paper Capacitor	1	1uF/250V Only(L)Side
	L1	ENZ4401-39210	Coil	1	3.9mH
	L2	ENZ4401-68110	Coil	1	0.68mH
	L3	ENZ4401-18210	Coil	1	1.8mH
	L4	ENZ4401-22110	Coil	1	0.22mH

⚠	Item	Part Number	Part Name	Q'ty	Description
	1	EMB00YP-204SA	Speaker Terminal	1	
	2	E74293-001	Mounting Board	2	
	3	E74294-001	Mounting Board	1	
	4	E33754-006	Tie Band	1	
	5	E69755-001	Ring Sleeve	10	
	6	E69755-002	Ring Sleeve	2	

Accessories List

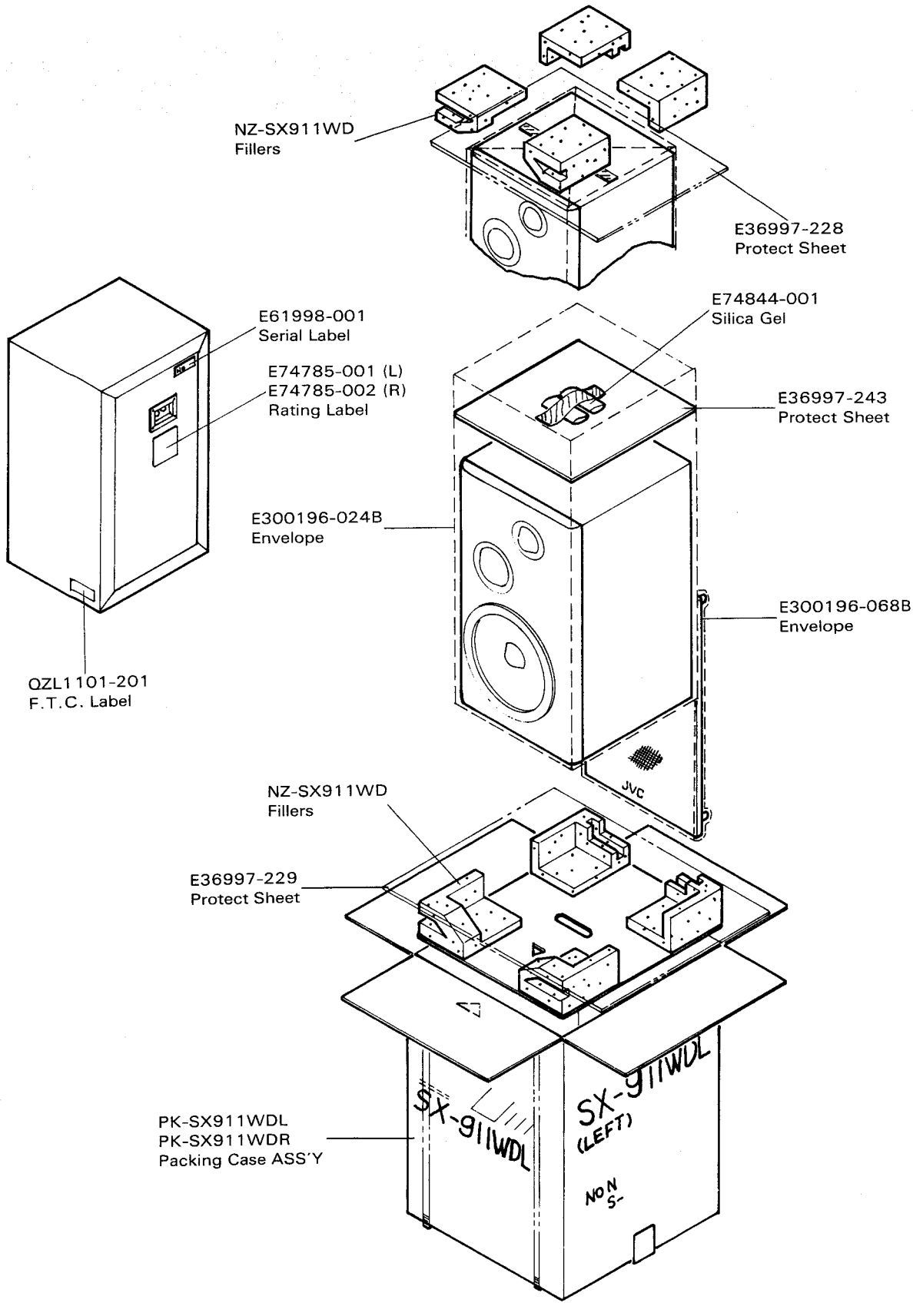
⚠	Part Number	Part Name	Q'ty	Description
	E30580-1475A	Instruction Book	1	With in (R) Packing Case
	EWP102-002	Speaker Cord Ass'y	1	
	E300196-010B	Enverope	1	
	BT20090	Warranty Card	1	the U.S.A.
	BT20046C	Service Information	1	the U.S.A.
	E66416-003	Enverope	1	the U.S.A.
	E43486-340B	Safety Sheet	1	the U.K.

Schematic Diagram

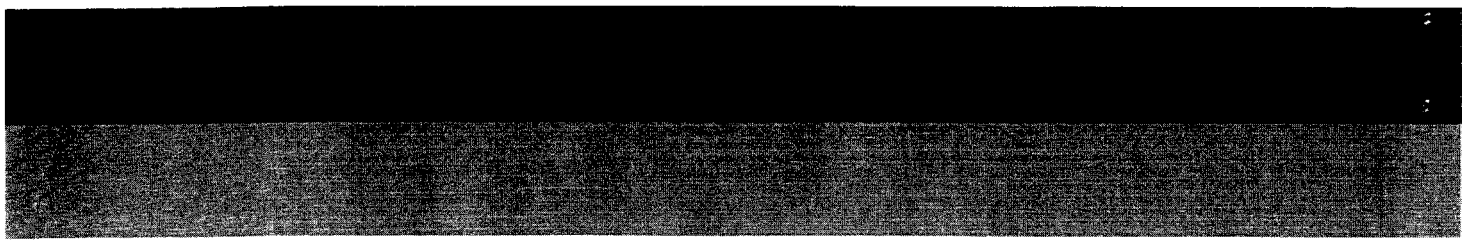


※ A mylar capacitor is connected to the left woofer only.

Packing Materials and Part Numbers



SX-911WD



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